SN10/507,255 Page 1 of 69 May 1, 2007 STIC STN SEARCH

"> 111 hccp
FILE 'HCAPLUS' ENTERED AT 16:36:50 ON OI MAY 2007
FILE 'HCAPLUS' ENTERED AT 16:36:50 ON OI MAY 2007
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FILE COVERS 1907 - 1 May 2007 VOL 146 ISS 19 FILE LAST UPDATED: 30 Apr 2007 (20070430/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

-> d que 118 L2

NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 23

SN10/507,255 Page 2 of 69 May 1, 2007 STIC STN SEARCH as d 118 1016 aba hitstr tot

Israel
U.S. Pat. Appl. Publ., 91 pp., Cont.-in-part of U.S.
Ser. No. 622,905.
CODEN: USXXCO

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

SN10/507,255 Page 3 of 69 May 1, 2007 STIC STN SEARCH

isopropylcyclohexanecarboxyl chloride (IPCHAC, 9.02 q, 1.01 equiv) was added
to the solution of Phe-ON obtained above, over 3 min, while stirring at room
temperature. The rest of the IPCMC in the funnel was washed with tolume (1
ml) and added. The resulting mixture was stirred for 1 h, and was treated
with 10 HC (132 ml. 10 adjust the plt to 3, while attring. The mixture was
attried for 1 h, and filtered. The solid was washed with water (200 ml) and
sucked well to afford 33.3 g of the moist product, which lost weight after
drying at 76°7.2 mbar (Massy 98.14, purity >991, yield 85).

It is produced by the first of the solid product, which lost weight after
the FPC Physic Residence (remedical process); PPP (Properties); PPP
[Physical process); SPM (Symthetic proparation) TNU
(Therapeutic use); BIOL (Biological study); FPEP (Properties);
PROC (Process); USES (Uses)
(preparation of crystalline form of nateglinide for dosage forms)

NO 105816-01-4 MCAPLUS

D-Phnylalanine, N-[[trans-4-(l-methylethyl)cyclohexyl]carbonyl]- (CA
INDEX MAPC)

LIS ANSHER 2 OF 34 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:203799 HCAPLUS Full-text
1004:203799 HCAPLUS Full-text
10:241062
Frocess for the formation of a crystalline polymorphic form of natesplinide
INVENTOR(S): Regurt, Buchl Reddy; Kadaboins, Rajasethar;
PATENT ASSIGNEE(S): Reddy's Laboratories Limited, India; Reddy's Laboratories Limited, Patent Language: Pa

PATENT	NO.			KIN	_	DATE		i	APPL	ICAT	ION I	NO.		-	ATE	
					-						••••					
WO 200				A1		2004										327 <
w:	AE,	AG,	AL,	AM,	AT,	ΑU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,
•	co,	CR,	CU,	CZ,	DE,	DK,	DH.	DZ.	EC,	EE,	ES,	FI.	GB,	GD,	GE,	GH,
	GH,	HR.	HU,	ID.	IL.	IN,	IS.	JP.	KE,	KG,	KP,	KR.	KZ,	LC.	LK.	LR,
	LS,	LT,	LU,	LV,	MA,	HD,	MG,	MK,	MN,	MM,	HX,	HZ,	NI,	NO,	NZ,	OH,
	PG,	PH.	PL.	PT,	RO,	RU,	SC.	SD,	SE,	SG,	SK,	SL,	SY,	TJ,	TH,	TN,
	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	vc.	W,	YU,	Zλ,	ZH,	ZW			
RM	: GH,	GM,	Κ£,	LS,	ΜИ,	MŻ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AH,	AZ,	BY,
	KG,	ΚŹ,	HD,	Rυ,	TJ,	TH,	AT.	BE,	BG,	CH,	CY.	CZ,	DE,	DK,	EE,	ES,
	FI,	FR,	GB,	GR,	Hυ,	IE,	IT,	LU,	MC,	NL.	PT,	RO,	SE,	SI,	SK,	TR,
	BF,	BJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML.	MR,	NE,	SN,	TD,	TG

SN10/507,255 Page 4 of 69 May 1, 2007 STIC STN SEARCH

IN 2002MA00631 A 20050304 IN 2002-MA631 20020828 <-AU 2003263928 A1 20040319 AU 2003-263928 20030827 <-US 200407725 A1 20040422 US 2003-649380 20030827 <-US 200404631 A 20020828 <-AB A crystalline polymorphic form of nategilinide are described and 1cm X-ray
diffraction pattern presented.

IN 2002-MA631 A 20020828 <-W 1003-USE860 W 10030821

I 205826-04-07, Nategilinide

RL: PRP (Properties): RCT (Reactant): FFW (Fymthatic preparation)
; FWU (Therapeutic use): BIOL (Biologica) study): FMEP

(Properations): RACT (Reactant or respent): USES (Uses)

RN 105818-04-4 MCAPLUS

CN D-Phempylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]- (CA

INDEX MAME)

Absolute stereochemistry.

REFERENCE COUNT: THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

RECORD. ALL CITATIONS OF STANDARD ACCESSION NUMBER: 2004:20709 HCAPLUS FULL-text TITLE: PRODUCTION OF STANDARD STANDARD

140:259085
Preparation of nateplinide inclusion complexes with cyclodexcine and their use in pharmaceutical compositions
Niu, Zhanqir Nang, iffang; Chen, Yujier Shen, Dongmin Zhonqqi Pharmaceutical Technology (Shijiarhuangi Co., Ltd., Paop. Rep. China
PCT Int. Appl., 19 pp.
CODEN: PIXXO2
Patent INVENTOR(S): PATENT ASSIGNEE(S):

SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	PATENT NO.				KIN	D	DATE			APPL	ICAT	I ON	NO.		D.	ATE		
		••••				-					••••	••••			•			
WO	2004	0199	89		A1		2004	0311		WO 2	003~	CN70	7		2	0030	822	<
	W:	AΕ,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	EB,	BG,	BR,	BY,	BZ,	CA,	CH,	co,	
		CR,	CU,	CZ,	DE,	DK,	DH,	DZ,	EC,	EE,	£5,	FI,	GB,	GD,	GE.	GH,	GH,	
		HR,	Hυ,	ID,	tı.	IN,	ıs,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,	LS,	
		LT.	LU,	LV.	ĸλ,	HD.	MG,	MK,	HN,	HW,	HX,	MZ,	NI.	NO,	NZ,	OH,	PG,	
		PH,	PL,	PT,	RO,	RU,	SC,	50,	SE,	SG,	SK,	SL,	SY,	TJ,	TH,	TN,	TR,	
							uz,											
	RW:	GH,																
							TM,											
		FI,	FR,	GB,	GR,	HU,	IE,	IT,	LU,	MC,	NL.	PT.	RO,	SE,	51,	SK,	TR,	

SN10/507,255 Page 5 of 69 May 1, 2007 STIC STN SEARCH

BY BY BY CYCLOTH CAN CHARLES AND CO. CH. ML. MR. NE. SN. TD. TG

CN 1478470 A 2001030 CN 2002-131331 2002037 C-
AN 200235310 A 20010310 CN 2002-131331 A 2002037 C-
PRICRITY APPRIL. INFO:

NO 2003-131311 A 2002037 C-
NO 2003-131311 A 2002037 C-
NO 2003-13131 A 2002037 C-
NO 2003-131311 A 2002037 C-
NO 2003-13131 A 2002037

CM 1

CRN 105816-04-4 CMF C19 H27 N 03

Absolute stereochemistry.

CM 2

CRN 7585-39-9 CMF C42 H70 035

SN10/507,255 Page 6 of 69 May 1, 2007 STIC STN SEARCH

105816-04-6, Mateglinide
RE: RCT (Reactant); RACT (Reactant or reagent)
(pharmaceutical compns. containing nateglinide inclusion complexes with
percelodextrin and its deriva.)
105816-04-6 MCAPLUS
D=**Demolylabanine, M-[[(rans-4-(1-methylethyl)cyclohexyl]carbonyl]- (CA
INDEX NAME)

105516-06-6DP, Nateglinide, complexes with hydroxypropyl B-cyclodextrin 659037-92-6P 669037-92-7P 650037-92-09 650037-92-6 669037-92-09 650037-92-09 650037-92-09 650037-92-09 650037-00-0

SN10/507,255 Page 7 of 69 May 1, 2007 STIC STN SEARCH

B-cyclodextrin and its deriva.)

RN 105816-04-4 HCAPUS

CN D-Phenylalanine, M-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl)- (CA INDEX MME)

669087-91-6 HCAPLUS
D-Phenylalanine, N-{{trans-4-(1-methylethyl)cyclohexyl]carbonyl}-, compd.
with \$\beta\$-cyclodextrin (2:1) (9CI) (CA INDEX NAME)

CRN 105816-04-4 CMF C19 H27 N O3

Absolute stereochemistry.

CH 2

CRN 7585-39-9 CHF C42 H70 035

Absolute stereochemistry.

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PAGE 2-A

669087-92-7 MCAPLUS
D-Phenylalanine, N-[[trans-t-([-methylethyl)cyclohexyl]carbonyl]-, compd.
with 2A,2B,2C,02,Ez,F7,G6,EA,6B,6C,6D,6E,6F,6G-tetradeca-O-methyl-Bcyclodextrin (1:1) [9CI] [CA INDEX NAME]

CRN 51166-71-3 CMF C56 H98 035

SN10/507,255 Page 9 of 69 May 1, 2007 STIC STN SEARCH

Absolute stereochemistry.

RN 659087-93-8 HCAPLUS
CN D-Phenylalanine, N-[[trans-4-{1-methylethyl]cyclohexyl]carbonyl]-, compd. with 2A, 2B, 2C, 2D, 2E, 1P, 2C, 3A, 3B, 3C, 3D, 3E, 3P, 3G, 6A, 6B, 6C, 6D, 6E, 6F, 6G-heneicosa-O-methyl-P-cyclodextrin (1:1) (9C1) (CA INDEX NAME)

CM 1

CRN 105816-04-4 CMF C19 H27 N 03

Absolute stereochemistry.

CM 2

SN10/507,255 Page 10 of 69 May 1, 2007 STIC STN SEARCH

CRN 55216-11-0 CMF C63 H112 O35

Absolute stereochemistry.

PAGE 2-A

RN 669087-94-9 HCAPLUS
CN D-Phenylalanine, N-[[trans-4-(1-methylethylicyclohexyl]carbonyl]-, compd. with 2A, 2B, 2C, D2, 2B, 2B, 2G, 5B, 6C, 5D, 6E, 6F, 6G-tetradeca-O-ethyl-B-cyclodextrin [1:1] [9CI] (CA INDEX NAME)

CH 1

CRN 111689-03-3 CMF C70 H126 035

Absolute stereochemistry.

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CM 2 CRN 105816-04-4 CMF C19 H27 N 03

RM 669087-95-0 HCAPLUS
CN D-Phenylalanine, M-[(trans-4-(1-methylethyl)cyclohexyl]cacbonyl]-, compd. with B-cyclodextrin (1:1) [9CI] (CA INDEX NAME)

CM 1 CRN 105816-04-4 CMF C19 H27 N 03 SN10/507,255 Page 12 of 69 May 1, 2007 STIC STN SEARCH

CM 2

CRN 7585-39-9 CMF C42 H70 O35

Absolute stereochemistry.

PAGE 2-A

KN 669088-00-0 HCAPLUS
CN 0-Phenylalanine, N-[[trans-d-(1-methylethyl)cyclohexyl]carbonyl]-, compd. vith 2A, 2B, 2C, 2D, ET, 2T, 2G, 2A, 2B, 3C, 3D, 3E, 3F, 3G, 6A, 6B, 6C, 6D, 6E, 6F, 6G-hemelcoss-0-ethyl-p-cyclodextrin (1:1) (9CI) (CA INDEX NAME)

ан

11

SN10/507,255 Page 13 of 69 May 1, 2007 STIC STN SEARCH CRN 111689-01-1 CHF C84 H154 035

Absolute stereochemistry

PAGE 1-A

PAGE 2-A

CRN 105816-04-4 CHF C19 H27 N 03

Absolute stereochemistry.

REFERENCE COUNT:

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 4 OF 34 HCAPLUS COPYRIGHT 2007 ACS on STN

SNIO/507,255 Page 14 of 69 May 1, 2007 STIC STN SEARCH
ACCESSION NUMBER:
DOCUMENT MUMBER:
100:199745
100:199745
NATIONAL ASSET ASSOCIATION OF A TEMPORAL ASSOCIATION OF A TEMP

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	PAT	ENT	NO.			KIN	D	DATE			APPL	CAT	ION .	NO.		D	ATE		
							-									-			
	WO	2004	0184	90		A1		2004	0304		NO 2	003-	1832	70		2	0030	812	<
	WO	2004	0184	08		A8		2005	0310										
		W:	AE.	AG.	AL.	AM,	AT.	AU.	AZ.	BA,	BB,	BG,	ВR,	BY,	EZ,	CA,	CK,	CN,	
			co.	CR,	CU.	CZ,	DE,	DX.	DH.	DZ.	EC.	EE,	ES,	FI.	GB.	GD,	GE,	GH,	
			GM,	HR,	HU.	ID.	IL,	IN,	IS.	JP.	KE,	KG,	KP.	KR,	KZ,	LC,	LK,	LR,	
			LS.	LT.	LU.	LV.	MA.	MD.	MG.	MK.	MN,	HW.	HX.	HZ,	NI.	NO.	NZ.	OH,	
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			TR.	TT.	TZ.	UA.	UG.	us.	uz.	VC.	VN.	YU.	ZA.	ZH.	ZW				
		RW:	GH.	GH.	KE.	LS.	MW.	MZ.	SĐ.	SL.	SZ.	TZ.	UG,	ZM.	ZW.	AH.	AZ.	BY,	
			KG.	KZ.	MD,	RU,	TJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	
			FI.	FR.	GB.	GR.	HU.	16.	IT.	LU.	MC.	NL.	PT.	RO.	SE.	SI.	SK,	TR,	
			BF.	BJ.	CF.	CG.	C1.	CH,	GA.	GN,	GQ.	GW,	ML,	MR.	NE.	SN.	TD,	TG	
	IN	2002	MUOO	773		A.		2004	0605		IN 2	002-	MU77	3		2	0020	826	<
	AU	2003	2633	86		A1		2004	0311		AU 2	003-	2633	86		2	0030	812	<
PRIO	RITY	APE	LN.	INFO	.:						IN 2	002-	MU77	3		A 2	0020	826	<
											NO 2	003-	IB32	70		W 2	0030	812	

13

SN10/507,255 Page 15 of 69 May 1, 2007 STIC STN SEARCH THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

PLUS COPYRIGHT 2007 ACS on STN 2004:80637 HCAPLUS <u>Full-text</u> 140:151932 L18 ANSWER 5 OF 34 ACCESSION NUMBER: DOCUMENT NUMBER: 140:151932
Preparation of polymorphic forms of nateglinide
Yanaloni, Romitz Shaptor, Evensy Dollitzky, Ben-zion,
Orion Parametrical Industries Ltd., Israels Teva
Pharmaceutical Usa, Inc.
PCT Int. Appl., 130 pp.
CODDR: PIXXD2
Patent
English
4 TITLE: INVENTOR(S): PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

SN10/507,255 Page 16 of 69 May 1, 2007 STIC STN SEARCH

US 2002-4326328 P 20021210 <--US 2002-4326328 P 20021212 (--US 2002-432628 P 2 20021212 (--US 2003-432628 P 2 20021212 (--US 2003-432628 P 2 20021212 (--US 2003-43268 P 2 2003123 (--US 2003-43268 P 2 2003123 (--US 2003-43268 P 2 2003103 (--US 2003-23296 A 2003103 (--US 2003-623905 A 2003103 (--US 2003-623905 A 20030718 US 2003-633166 A 20031023 US 2003-63316 A 20031023 US 2003-6331

103816-04-00P, Nateplinics, polymorphs 651353-42-39
63133-43-07 63133-46-07 63133-48-0P
63135-43-07 63133-46-07 63133-48-0P
63135-43-07 63133-51-07 63133-51-0P
63135-33-07 63133-53-57 63133-53-57
RL: FEP (Physical, engineering or chemical process); PYF (Physical process); DYF (Sprubacid propagazion); TRU (Therapeutic use);
BIOL (Biological study); PREF (Prepagazion); PROC (Process))
USEC (Station of polymorphs (process))

USES (Uses)

(preparation of polymorphic forms of nateglinide)

[DSSIE-04-4 HCAPIUS
D-Phenylaianine, N-{|trans-4-(1-methylethyl)cyclohexyl]carbonyl}- (CA
HDDX NAME)

SN10/507,255 Page 17 of 69 May 1, 2007 STIC STN SEARCH

651353-42-3 HCAPLUS
D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyll-, compd.
with methanol (901) (CA INDEX MAME)

CH 1

CRN 105816-04-4 CMF C19 H27 N O3

Absolute stereochemistry.

CH 2

41C-0X

651353-43-4 HCAPLUS
D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd.
with ethanol (9C1) (CA [NDEX NAME)

СМ 1

CRN 105816-04-4 CMF C19 H27 N 03

Absolute stereochemistry.

SN10/507,255 Page 18 of 69 May 1, 2007 STIC STN SEARCH

ОН 2

CRN 64-17-5 CMF C2 H6 O

RN 651353-44-5 HCAPLUS
CN D-Phenylalanine, N-[[trans-4-(1-methylethylicyclohexyl]carbonyl]-, compd. with 1-butanol [9CI) (CA INDEX NAME)

CH 1

CRN 105816-04-4 CMF CI9 N27 N O3

Absolute stereochemistry.

CH 2

K3C-CH2-CK2-CH2-OK

RN 651353-45-6 HCAPLUS
CN D-Phenylalanine, N-[[trans-4-(1-methylethyl]cyclohexyl]carbonyl]-, compd. with 1-propanol [9C1] (CA INDEX NAME)

17

18

SN10/507,255 Page 19 of 69 May 1, 2007 STIC STN SEARCH CHF C19 H27 N 03

أنوا سعينالعنشيصعيك

CH 2

CRN 71-23-8 CMF C3 H8 O

#1C-C#2-C#2-OX

651353-46-7 HCAPLUS
D-Phenylalanine, N-[[trans-4-(1-methylethyl]cyclohexyl]carbonyl]-, compd.with N,N-dimethylacetamide (9CI) (CA INDEX NAME)

CRN 105816-04-4 CMF C19 H27 N 03

Absolute stereochemistry.

CRN 127-19-5 CMF C4 H9 N O

H.- L.

SN10/507,255 Page 20 of 69 May 1, 2007 STIC STN SEARCH RN 651353-47-8 NCAPUS D-Phenylaenine, N-[[trans-4-(]-methylethyl]cyclohexyl]carbonyl]-, compd. with 1-methyl-2-pyrcolidinone (GCI) [CA IMDEX NAME)

CH 1

CRN 105816-04-4 CMF C19 H27 N O3

CH 2

CRN 872-50-4 CMF C5 H9 N O

651353-48-9 HCAFLUS
D-Phanylalanine, N-[[trans-4-(1-methylethyl]cyclohexyl]carbonyl]-, compd.
with N,N-dimethylformanide (SCI) (CA INDEX NAME)

CH 1

CRN 105816-04-4 CMF C19 H27 N 03

CH 2

CRM 68-12-2

RN 651353-49-0 HCAPLUS
CN D-Phenylalanime, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, co
with 1,2-dimethoxyethane (9Cl) (CA INDEX NAME)

CRN 105816-04-4 CMF C19 H27 N O3

Absolute stereochemistry.

CH 2

CRN 110-71-4 CMF C4 H10 02

RN 651353-50-3 MCAPLUS
CN D-Phenylalanine, M-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd. with dischtylbonzene (9CI) (CA IMDEX NAME)

CH 1

CRN 105816-04-4 CMF C19 H27 N 03

SN10/507,255 Page 22 of 69 May 1, 2007 STIC STN SEARCH

CH 2

CRN 1330-20-7 CMF C8 H10 CC1 IDS

2 (D1-He)

RN 651353-51-4 HCAPLUS
CN D-Phenylalanine, N-([trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd.
with tetrachloromethame (9CI) (CA INDEX MAME)

CH 1

CRN 105816-04-4 CMF C19 H27 N O3

CH 2

CRN 56-23-5 CMF C C14

21

RN 651353-52-5 HCAPLUS
CN D-Phenylalanine, M-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd.
with 1,2-dichlorochane [9C1] (CA INDEX MAME)

SN10/507,255 Page 23 of 69 May 1, 2007 STIC STN SEARCH

Absolute stereochemistry.

CN 2

CRN 107-06-2 CMF C2 H4 C12

C1-C12-C12-C1

651353-53-6 HCAPLUS
D-Phenylalanine, M-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd.
with trichloromethane (9CI) (CA INDEX NAME)

CH 1

CM 2

CRN 67-66-3 CMF C H C13

C1-FH-C1

SN10/507,255 Page 24 of 69 May 1, 2007 STIC STN SEARCH

651353-54-7 HCAPLUS
D-Phenylalanine, N-{{trans-4-{i-methylethyl}cyclohexyl}carbonyl}-, compdwith heptane (9CI) (CA INDEX NAME)

CM 1

CRN 105816-04-4 CMF C19 H27 N 03

Absolute stereochemistry.

SOURCE:

CRN 142-82-5 CMF C7 H16

THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMULABLES CONTROL OF THE PROPERTY REFERENCE COUNT:

LIB ANSWER 6 OF 34 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

INVENTOR(S):

PATENT ASSIGNEE(S):

DOCUMENT TYPE: LANGUAGE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

WO 2004005240 Al 20040115 WO 2003-US21238 20030703 <-N: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, KD, KM, CD, EC, EE, ES, FI, GB, GO, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR.

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US 2003-623237
US 2003-622999
CH 2003-622999
CH 2003-621921
US 2006-51635
US 2002-394594
US 2002-4134599
US 2002-4134599
US 2002-422750P
US 2002-422750P
US 2002-42750P
US 2003-422750P
US 2003-427901
US 2003-422962P
US 2003-422962P
US 2003-422962P
US 2003-422962P
US 2003-62999
```

OTHER SOURCE(5): CASREACT 140:94292 At 2003-07:22999 At 2003-07:2399

AB A process for the preparation of nateqlinide involves converting trans-disperpolycylchokavancerboxylic acid into the acid chloride by reaction with thionyl chloride in the presence of an organic amide and acylation of a suitable sait of D-phenylaianine with the acid chloride in a single or two phase system or in water (ree of a co-solvent.

If ISSIE-04-4P, Nateglinide
RL IST (Industrial mammfacture); STW (Synthetic presention); PSTP (Preparation)

RN 103816-04-4 (NAPLUS

CN D-Phenylaianine, N-[[trans-4-(i-methylethyl)cyclohexyl]csrbonyl]- (CA INDEX NAME)

Absolute stereochemistry.

173653-89-9
RL: PRP (Properties)
(properties of nateglinide hydrate)
173653-89-9 HCAPLUS

SN10/507,255 Page 26 of 69 May 1, 2007 STIC STN SEARCH
On D-Phenylalanine, N-[(trans-4-(1-methylethyl)cyclohexyl]cscbonyl]-, hydrate
(961) (CA INDEX MAC)

REFERENCE COUNT:

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

LIB ANSHER 7 OF 34
ACCESSION NUMBER:
DOGUMENT NUMBER:
1203:193741 MCAPLUS Full-text
1203:193741 MCAPLUS Full-text
1303:193741 Process for the preparation of a crystal polymorphic
for on f N-(trans-4-iaspropyl)-polypolohenylca-bonyl)-Dphenylalanine (nateglinide)
phenylalanine (nat

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

JP 2005523933 PRIORITY APPLN. INFO.:

25

SN10/507,255 Page 27 of 69 May 1, 2007 STIC STN SEARCH

AB Novel polymorph Form C of N-(trans-4-isopropylcyclohexylcarbonyl)-Dphenylsianine (ii) i.e., nateglinide) is produced having a different IR
spectrum and X-ray diffraction patterns (presented) from previously known
forms of I and State of the Associated and State of the State of the

spectrum and X-ray diffraction patterns [presented] from previously known forms of 1.
1031874-CP, Nteplinide 1.
1031874-CP

Absolute stereochemistry.

REFERENCE COUNT:

5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

LIS ANSWER 8 OF 34 HCAPLUS COPYRIGHT 2007 ACS on STM
ACCESSION NUMBER: 20031837030 HCAPLUS Full-text
10031837030 HCAPLUS Full-

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PAT	ENT	NO.			KIN	D	DATE			APPL	ICAT	ION I	NO.		D	ATE		
						-												
MO	2003	0870	39		Al		2003	1023	1	HO 2	003-	JP46	86		21	00304	114 <	
	w:	AE,	AG.	AL,	AH.	AT.	AU,	AZ.	BA.	BB.	BG.	BR.	BY.	BZ.	CA.	CH.	CN.	
							DK.											
							IN.											
							HD,											
		PH,	PL,	PT.	RO,	ĸu,	sc,	50.	SE,	SG,	SK,	SL,	TJ,	TM,	TN,	TR,	TT,	
		TZ.	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA.	ZH,	ZW						
	RW:	GH,	GM,	ΚE,	LS,	MN,	ΜZ,	5D,	SL,	SZ,	TZ,	UĢ,	ZM,	ZW,	AM,	AZ,	BY,	
		KG.	KZ.	HD,	RU,	TJ.	TM,	AT,	BE,	BG,	CH.	CY.	CZ.	DE.	DK.	ĒĒ.	ES.	
		FI.	FR.	GB.	GR.	HU.	IE,	IT.	LU.	MC.	NL.	PT.	RO.	SE.	51.	SK.	TR.	
							CH,											
AU	2003	2362	43		Al		2003	1027		AU 2	003-	2362	43		21	0030	114 <	
EP	1496	048			Αi		2005	0112		EP 2	003-	7464	74		21	0030	114 <	
	R:	AT,	BE,	CH,	DE,	DK.	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,	
		IE.	SI.	LT.	LV.	FI.	RO,	MK.	CY.	AL.	TR.	BG.	CZ.	EE.	HU.	sk		
US	2005																015 <	

SN10/507,255 Page 28 of 69 May 1, 2007 STIC STN SEARCH

Absolute stereochemistry.

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

LIS ANSWER 9 OF 34
ACCESSION NUMBER:
DOCHMENT NUMBER:
1003:137716 MCAPLUS Pull-text
DOCHMENT:
INVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:
DOCUMENT TYPE:
DOCUMENT TYPE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

FATENT NO. KIND DATE APPLICATION NO. DATE

MO 2003076193 AI 20030918 MO 2003-EP2447 20030910 <M: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BB, BY, BZ, CA, CH, CN,
CO, CR, CJ, CZ, DE, DW, OW, DZ, EC, EE, ES, FT, GB, GD, GE, GH,
MR, NU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LT, LU,

Absolute stereochemistry.

IT 592523-31-47 592523-32-59 592524-24-EP 594937-45-12 594937-45-22 594937-47-39 594937-47-39 Ri.: PRP (Properties): SPN (synthetic preparation): PREP (Properties)

Preparation; (Preparation and properties of nateglinide salts) 592523-21-4 MCAPUS
Debenyllainine, N-[[trans-4-i]-mathylethyleyclohexyl]carbonyl]-, compd. with 1-deoxy-1-(methylamino)-D-glucitol (1:1) (9C1) (CA INDEX NAME)

CM 1

CRN 105816-04-4 CMF C19 H27 N 03

Absolute stereochemistry.

SN10/507,255 Page 30 of 69 May 1, 2007 STIC STN SEARCH

CH 2

CRN 6284-40-8 CMF C7 H17 N OS

592523-32-5 HCAPLUS
D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd.
with 2-amino-2-(hydcoxymethyl)-1,3-propanediol (1:1) (9CI) (CA INDEX NAME)

CM I

Absolute stereochemistry.

CM 2

CRN 77-86-1 CMF C4 H11 N 03

29

SN10/507,255 Page 31 of 69 May 1, 2007 STIC STN SEARCH

592524-24-8 HCAPLUS D-Phenylalanine, N-([trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd-with L-lysine (1:1) (9CI) (GA IMDEX NAME)

CRN 105816-04-4 CMF C19 H27 N O3

Absolute stereochemistry.

CRN 56-87-1 CMF C6 H14 N2 O2

Absolute stereochemistry.

594837-85-1 HCAPLUS
D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-,
monosodium salt (9CI) {CA INDEX NAME}

Absolute stereochemistry.

$$\mathsf{Ph} \underbrace{ \left\{ \begin{array}{c} \mathsf{O}_{2H} \\ \mathsf{O}_{2H} \end{array} \right\} }_{\mathsf{QH}} \mathsf{Pr}^{-1}$$

594837-86-2 HCAPLUS
D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-,
monopotassium salt (9CI] (CA INDEX NAME)

31

SN10/507,255 Page 32 of 69 May 1, 2007 STIC STN SEARCH

solute stereochemistry.

RM 594837-87-3 HCAPLUS
CN D-Phenylelanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonylj-, calcium
salt (2:1) [901] (CA INDEX NAME)

●1/2 Ca

RN 594837-89-5 HCAPLUS
CN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, aemonium salt 951] (CA NMDEX NAME)

olute stereochemistry.

REFERENCE COUNT:

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 10 0F 34 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2003:F6738 HCAPLUS FUll-text
DOCUMENT NUMBER: 139:137033
TITLE: Oxidative process and catelysts for the manufacture of

SN10/507,255 Page 33 of 69 May 1, 2007 STIC STN SEARCH
para-substituted benzolc scids from their
corresponding aldehydes
SOURCE:
PATENT ASSIGNEE(8):
SOURCE:
PRINT ASSIGNEE(8):
PRINT AS DOCUMENT TYPE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PA*	TENT	NO.			KIN	D	DATE			APPL	ICAT	ION	NO.		D.	ATE		
**						-									-			
WO	2003	10083	67		A2		2003	0130		MO 2	002-	US22	631		2	0020	716	<-
MO	200	10083	67		A.3		2003	0410							_			
	ω.	AF.	AG.	At.	AM	AT.	AU,	A.Z	R.A.	BB.	BG.	PB.	8Y	9.7	Ch	CH	CN	
							DK.											
							IN,											
							HD,											
							SE,				SL,	TJ,	TM,	TM,	TK.	π.	TZ.	
							YU,											
	RM:						HZ,											
							TH,											
		FI,	FR,	GB,	GR,	IE,	IT,	LU.	MC,	NL,	PT,	SE,	SK,	TR,	BF,	BJ,	CF.	
		CG,	CI.	CM,	GA,	GN,	GQ,	GW,	ML.	MR,	NE.	SN.	TD.	TG				
US	2003						2003								2	0020	715	<-
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							2003			A11 2	002-	3136	۵1		•	0020	716	_
IORIT					~.		1003	0303			001-							
TOKIT	API	Let.	INTU	• •														
ure c							- 13				002-				w z	0020	716	<-

R SOURCE(S):

CASREACT 138:1370337 MARPAT 138:137037

A low-temperature process for preparing aromatic acids 4-(RIRECHICSHOCO2N [R].

A low-temperature process for preparing aromatic acids 4-(RIRECHICSHOCO2N [R].

A low-temperature statistic process for preparing aromatic acids 4-(RIRECHICSHOCO2N [R].

A low-temperature process for preparing aromatic acids 4-(RIRECHICSHOCO2N [R].

Ce.g., 4-(RIRECHICSHOCO2N [R].

4-(RI

Absolute stereochemistry.

L18 ANSWER 11 OF 34 HCAPLUS COPYRIGHT 2007 ACS on STN

SN10/507,255 Page 34 of 69 May 1, 2007 STIC STN SEARCH

ACCESSION NUMBER: 2003/67612 MCAPLUS PUll-text
136173015

INVENTOR(S): Guident Assistance of Company C

DOCUMENT TYPE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

A 20011031 CN 2001-107459 CN 2001-107459 APPLICATION NO. PATENT NO. DATE CM 1319583
PRIORITY APPLN. INFO.:
OTHER SOURCE(S): 20010116 <--

R SOURCIS: CASEART 138:73015
The process Comprises bytographing munic acid in acetic acid in the presence of PtO2, recovering solvent, treating with 10-351 inory, base (such as Ba(OH)2, Mg(0H)2, KOM, or NaOH) solution at 50-150° for 10-20 n, neutralizing with NCI to pH 2, crystallizing, filtering, and recrystg. in methanol. 105818-04-04, Nateqlinide
RL: PNU (Proparation, unclassified), PNIDP (Proparation) (synthesis of trans-t-isopropyleyciohexanecarboxylic acid as intermediate for nateglinide)
105318-04-4 NAPAUNS

D-Phenylalanine, N-[[trans-4-(1-methylethyl]cyclohexyl]carbonyl]- [CA INDEX NAME]

Absolute stereochemistry.

L18 ANSMER 12 OF 34 KCAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 2003:10017 KCAPLUS <u>Full-text</u>
DOCUMENT NUMBER: 1912:10299
TITLE: Study on ******

Journal Transus Tash 1901-16xt

Study on separation of cir-inomer of nateglinide by high-pressure liquid chromatographic method Yan, Xiaoyan; Hu, Xin; Cao, Gueying; He, Xiaocong; Yin, Ol Beijing Hospital, Hinistry of Public Health, Beijing, 100730, Peop. Rep. China Zhonggue Yaoxue Zzzhi (Beijing, China) (2002), 1, 71(5), 444-446

CODEN: XTAKU, 15SN: 1001-2494
JOURNAL Cacue Zachishe
Chinese AUTHOR(S): CORPORATE SOURCE:

PUBLISHER: DOCUMENT TYPE: LANGUAGE:

SNI0/507,255 Page 35 of 69 May 1, 2007 STIC STN SEARCH

AB A high-pressure liquid chromatog, method for the separation of cis-isomer of
nateglinide was established on Phenomenax Luna ClB column (5 ps. 4.6 cm x 250
cm) with UV detection at 214 cm and room temperature The mobile phase was
consisted of (A) acetonitrile and (B) 0.03 col 1-1 phosphace buffer (pH 2.5,
65 detection which was the second column of the color of color of the ps. 1-1, resp. The
method is useful in separation and determination of the cis-isomer from
nateglinide.

IT 105816-04-0 105816-06-07
RRI: ANT (Analyte): BSU (Biological study, unclassified); PRP (Properties);
pVR (Psutificacion or recovery); ANST (Analytical study); BIOL
(Biological study); PREP (Prospertation)

IN 105816-04-4 HCAPLUS

N D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]cacbonyl]- (CA
INDEX NAME)

Absolute stereochemistry.

105816-06-6 KCAPLUS
D-Phenylalanine, N-[[cis-4-(1-methylethyl)cyclohexyl]carbonyl]- (9CI) (CA

Absolute stereochemistry.

L10 ANSMER 13 OF 34 NCAPLUS COPYRIGHT 2007 ACS on STM ACCESSION NUMBER: 1003:8839 MCAPLUS Dil-test
TITLE: Pharmacokimetics of nateglinide and its racemization during biotrandformation in healthy volunteers MU, Xin, Cao, Guoying MU, Xiuzhong; Song, Younus; Bu, Xin, Cao, Guoying MU, Xiuzhong; Song, Younus; 100730, Peop. Rep. Chins 100730, Peop. Rep. Chins 100730, Peop. Rep. Chins 113, 135-199
PUBLISHER: BOOWLEST TYPE: LANGUAGE: Chinese

PUBLISHER: DOCUMENT TYPE: LANGUAGE:

SN10/507,255 Page 36 of 69 May 1, 2007 STIC STN SEARCH

The pharmacokinetics of nateglinide and its sacemization during biotransformation were studied in 8 healthy volunteers. Each volunteer was orally given 90 mg. Drug concens. in plasma and urine were assayed by RP-HPLC method on Chiralesi OBG column (10 yes, 4.6 mm x 250 mm) with acconditionation were supported by the studied in 8 healthy volunteers. 22 mm and the acconditionation of the control of the studies of the control of the control of the studies of the compartment model. After a single oral done (90 mg), Chax was 7.51 ± 2.83 mg l-1 at 1.25 to 2.65 h, 1/2 was 1.18 ± 0.33 h, AUCO-1 was 17.91 ± 4.34 mg h-1 l-1, CL/F (3) was 5.30 ± 1.46 l. h-1, original drug percentage in urine within 12 ms. Studies of the control of the control

Absolute stereochemistry

RN 105816-05-5 HCAPLUS
CN L-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]- (9CI)
(CA INDEX NAME)

LIE ANSWER 14 OF 34 RCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:864977 RCAPLUS Pull-text
DOCUMENT NUMBER: 181:14688 Chiral separation of N-(trans-4-isopropylcyclo-hycyclophy

SN10/507,255 Page 37 of 69 May 1, 2007 STIC STN SEARCH

CODEN: CHRGET: ISSN: 0009-5893 Friedrich Vieweg & Sohn Verlagsgesellschaft mbH Journal

DOCUMENT TYPE: Journal
LINGUAGE: English
AB A RPLC method was developed for the chiral separation of a new anti-diabetic
agent, N-(trans-4-inporpoy)cyclohexylcarbonyl)-D-phenylalanine, and its Lenantiomer. The separation was performed on a Sumichiral OA-1300 column.
Optimized mobile phase was 0.025 mol L-1 amononium accetate in methanol solution
UV detection was at 210 mm. Baseline chiral separation was obtained within 12
min. The detection limits are 60 pp for the D-enantiomer and 120 pp for the
L-enantiomer. Relative standard deviation of the method was <1% (n = 5).

17 491878-09-2

491828-09-2
RI: NAT (Analyte); ANST (Analytical study)
(chiral separation of N-(trans-isopropylcyclohexylcarbonyl)-DLnylalanine
isomers by high performance liquid chromatog.)
491828-09-2 MCAPULS
Phenylalanine, N-([trans-4-([-methylethyl)cyclohexyl[carbonyl]- (9CI) (CA
INDEX NAME)

REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 15 OF 34 MCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:609152 MCAPLUS Full-text
DOCUMENT NUMBER: 138:254901
TITLE: a new synthesis method of nateglinide as antidiabetic

a new synthesis method of nategianium es successively
Wang, Dunr, Liang, Yiheng; Gong, Ping; Zhao, Yanfang
School of Pharmaceutical Engineering, Shenyang
Pharmaceutical University, Shenyang, 110016, Peop.
Rep. Chiha
Rhongguo Yaonu Huazue Zazhi (2002), 12(2),
94-96
CODEN: TYPEEF, ISSN: 1005-0108
Zhengguo Yaonu Huazue Zazhi Bianjibu
Journal
Chinese
CASEACT 136:254901
drug-nategilinide was synthesized from isopropylhesze AUTHOR(S): CORPORATE SOURCE:

SOURCE:

DOCUMENT TYPE: LANGUAGE: OTHER SOURCE(S): AB A new services R SOURCE(S):

A new antidiabetic drup-mateplinide was synthesized from isopropylbenzene by Friedsi-Crafts reaction, chloroform reaction, catalytic hydrogenation to obtain trans-4-isopropylhexamecarboxylic acid, explained the physical ester, hydrolysis to obtain nateplinide B-type crystal, and crystal-conversion. The total yield was 9.81.

189716-04-09, Nateplinide

10586-04-4P, Nateglinide
RL: SPM (Synthetic preparation); THU (Therapeutic use); BlOL
(Biological study); PRTP (Preparation); USES (Uses)
(synthesis of nateglinide as antidiabetic drug)

SN10/507,255 Page 38 of 69 May 1, 2007 STIC STN SEARCH

105816-04-4 HCAPLUS
D-Phenylalanine, N-[[trans-4-(l-methylethyl)cyclohexyl]carbonyl]- ICA
INDEX NAME)

Absolute stereochemistry

L18 ANSWER 16 OF 34

ACCESSION NUMBER: 2002:332157 RCAPLUS Full-text
TITLE: Process for producing 8-form nateglinide crystals
SUNCETO: SUMERINE SUM

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

											LICAT							
NO	2002	0347	13		A1		2002	0502		NO 2	- 1005	JP92	93		2	0011	0 23	<
	w:	Α£.	AG.	AL.	AH.	AT.	AU.	AZ.	BA.	BB.	BG,	BR.	BY.	BZ.	CA,	CH,	CN,	
		CO.	CR.	CU.	CZ.	DE.	DK.	DM.	DZ.	EC.	EE,	ES.	FI.	GB.	GD.	GE.	GH.	
											KG,							
											MW.							
											TJ,							
							ZW								,		,	
	es.										TZ,	uc	7 W	a.t	90	CH	cv	
	HW;																	
											w,							
		HJ,	CF,	CG,	cı,	CM,	GA,	GN,	ωQ,	GW,	ML,	MH,	NE,	SN,	10,	10		
AU	2001	9600	ı		Α.		2002	0506		AU 2	2001 - 2001 -	9600	1		2	0011	ozs	۲-
CA	2426	745			A1		2003	0423		CA 2	2001-	2426	745		- 2	0011	023	<-
EP											2001-							
	R:										, IT,		LU,	NL,	SE,	MC,	PT,	
		1E,	si,	LT,	LV.	FI,	RO,	нĸ,	CY,	λL,	, TR							
BR	2001	0148	16		A		2004	0225		BR 2	2001-	1484	6		2	0011	023	<-
RU	2275	354			CZ		2006	0127		RU 2	2003-	1119	48		2	0011	023	<-
US	2003	2292	19		A1		2003	1211		us :	2003-	4218	88		2			
IN	2003	CNOO	509		٨		2005	0415		IN 2	2003-	CN60	9		2	0030		
	APP									JP :	2000-	3243	75		A 2	0001	024	<-
											2001-							

news are producing 8-form nateglinide crystals containing substantially no H-form crystals comprises the steps of drying west crystals of a nateglinide solvate at a low temperature until the solvent disappears and then causing then to undergo a crystal transition. Nateglinide is a known antidiabetic. By this process, 8-form nateglinide crystals can be produced on an industrial scale.

37

SN10/507,255 Page 39 of 69 May 1, 2007 STIC STN SEARCH

10/30/,233 1 age 39 01 09 Very 1, 2007 STITE STREETHERS.

105816-04-4 [Asteplinide RL: PAC (Phermacological activity); PUR (Perification or recovery); TMU (Therapoutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (industrial process for producing 8-form nateglinide crystals) 105816-04-4 RCAPIUS 0-Phenylalanine, N-([trans-4-(1-methylethyl)cyclohexyl]carbonyl]- (CA INDEX NAME)

Absolute stereochemiatry.

IT 17453-68-9
RAL PEP (Physical, engineering or chemical process); PROC (Process)
(Industrial process for producing B-form nateglinide crystals)
RN 174553-69-9 NCAPUS
CN 0-Phenylalanine, N-[(trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, hydrate
(901) (CA INDEX NATE)

Absolute stereochemistry

REFERENCE COUNT:

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

LIS ANSWER 17 OF 34 HCAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 1002:3114996 HCAPLUS FULl-text
DOCUMENT NUMBER: 154:325025
INVERTOR(S): TRANSMITTER: 154:325025
INVERTOR(S): TRANSMITTER: TRANSMITTER: 154:325025
SOURCE: TRANSMITTER: 154:325025
DOCUMENT TYPE: LANGUAGE: 140:325025
LANGUAGE: LA

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

LIS ANSWER 18 OF 34 HCAPLUS COPYRIGHT 2007 ACS on STN

DS 720672 B2 20070424 US 2003-418105 20030418 <-PRIORITY APPLIA INFO:

CHARACTER SOURCE(S);

CASREACT 136:325825

AB A process for producing nateglinide crystals comprises reacting trans-timproperpleyclohexylcarbonyl chlorids with D-phenyllainins in a mixed molvent
consisting of a ketone solvent and water in the presence of an alkali to
obtain a reaction mixture containing nateglinide, adding an acid to the
reaction mixture to make it acidic, and regulating (a) the temperature to 58°
to 72° and (b) and the ketone solvent concentration to >6 weight and <22
veight, to conduct crystallization Nateglinide is a known antidabetic. The
process is an industrially advantageous method for crystallizing mateglinide.
RL: IMP (Industrial manufacture); PRP (Properties); PUR
[Purification or recovery!; ISPN (Synthetic preparation);
TRU (Therapeutic use); BIOL (Giological study); PRRP (Preparation);
USIS (Uses)

(process for producing nateglinide crystals)
RM 105816-04- MCAPLUS
CN D-Phenylalanine N-[[trans-4-(l-methylethyl)cyclohexyl]carbonyl]- (CA 180EX NAME) Absolute stereochemistry.

SN10/S07,255 Page 41 of 69 May 1, 2007 STIC STN SEARCH
ACCESSION NUMBER:
DOCUMENT MUMBER:
136:340997
ITILE:
INVENTOR(s):
PATENT ASSIGNEE(s):
SOURCE:
ASSIGNEE(s):

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	PATENT NO.					KIN	D	DATE			APPL	ICAT	101	NO.		D	ATE		
							-									-			
	WO	2002	0328	53		Ai		2002	0425		NO 2	001-	JP90	68		2	0011	016 <	••
			AE.																
								DK.											
								IN,											
								MD.											
								SG,	SI,	SK,	SL,	TJ,	TH,	TH,	TT,	TZ,	UA,	uG,	
						YU,													
		RW:	GH,	GM,	KE,	LS,	MW,	ΗZ,	SD,	SL,	SZ,	TZ,	UG,	ZW.	AT,	BE,	CH,	CY,	
			DE.	DK,	ES,	FI,	FR,	GB,	GR,	IE,	IT,	LU,	NC,	NL,	PT,	SE.	TR,	BF,	
			BJ.	CF,	CG,	C1.	CH,	GA,	GN,	GQ,	GW,	ML,	MR,	NE.	SN,	ŤD.	TG		
	AU	2001	9426	4		A.		2002	0429		AU 2	001-	9426	4		2	0011	016 <	
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																		016 <	
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	nn	2001														-	0011	.16 /	
	- DA	2001	014,	20				2003	1014		BX 2	001-	14/2	• •			2011	010	
	KU	2207	520			Ç2		2006	1120		KU 2	003-	1110	12		- 4	2011	016 < 016 < 017 <	
	TW	5755	41			B		2004	0211		T₩ 2	001-	9012	5695		- 2	2011	017 <	
																		411 <	
											US 2	003-	4181	02		2	2030	418 <	••
		7030																	
	US	2006	1551	43		Al		2006	0713		US 2	005-	3191	77		2	0051	228 <	
PR I	IORIT	Y APP	LN.	INFO	. :						JP 2	000-	3176	03		A 2	0001	018 <	
												001-	TDOO						

OTHER SOURCE(S):

SN10/507,255 Page 42 of 69 May 1, 2007 STIC STN SEARCH

REFERENCE COUNT:

L10 ANSWER 19 OF 34 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

THERE ARE 7 CITED REFERENCES AVAILABLE FOR THI:
RECORD. ALL CITATIONS AVAILABLE IN THE RE PORMU
HCAPLUS COPPYRIGHT 2007 ACS on STM
2001:293522 HCAPLUS Full-text
135:225420
Drugs for diabetes, aspecially type 2, comprising an
antiinfianmatory or analgesic drug, selected bivalent
linkers, and a nitrate ester
Del Soldato, Piero
Nicox S.A., Fr.
PCT Int. Appl., 66 pp.
CODEN: PIXD2
Patent
English
1

INVENTOR(S): PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM, COUNT: PATENT INFORMATION:

PA	TENT	NO.			KIN	D	DATE			APPL	1CAT	ION :	NO.		D.	ATE		
						-									-			
HO	2002	0308	67		A2		2002	0418	1	NO 2	001-	EP11	665		2	0011	009	<
WO	2002	0308	67		A3		2002	0725										
							86,			BZ.	CA.	CN.	CR.	CU.	CZ.	DM.	DZ.	
							ID,											
							MX,											
							AH,											
	RW:						MZ,										cv	
							GB,											
							GA,											
. 11	2000	MI 22		,	21		1001	0412	~~,		000	4.22	,	٠,		~~~		
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11	1319	201			81		2003	0926										
CA	2425	655			A1		2002	0418		CA 2	001-	2425	655		2	3011	009	<
AU	2002	1400	6				2002	0422		NU 2	002-	1400	6		2	0011	009	<
EP	1324	974			A2		2003	0709		EP 2	001-	9824	14		2	0011	009	<
							ES,											
							RO,											
JP	2004												56		2	0011	900	<
	2004																	
PRIORIT	V APP	TM	INFO								000-							
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OTHER S	OURCE	(81:			MAR	PAT	136+	3254			1-						,	•
GI		,.				• • • •												

SN10/507,255 Page 43 of 69 May 1, 2007 STIC STN SEARCH

مالي والد

Useful for the treatment of diabetes, particularly type 2, are composed or salts thereof. Abating the following general formula A-(0)--(closMO) [1] wherein A = radical of a drup having general formula A-(0)--(closMO) [1] wherein A = radical of a drup having general formula A-(0)--(closMO) [1] wherein A = radical of a drup having general formula and the state of the state of the state of the special of the sp

Absolute atereochemiatry.

SN10/507,255 Page 44 of 69 May 1, 2007 STIC STN SEARCH

LIB ANSWER 20 of 34
ACCESSION NUMBER:
DOCUMENT NUMBER:
2002:174779 HCAPLUS PAIL-text
1371:379026
Synthesis of [14C]- and [3M]ONHOOD [STARLIX]
ANTHOR(SI:
CORPORATE SOURCE:
SOU

REFERENCE COUNT: THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSHER 21 OF 34
ACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE:
AUTHOR(\$):
CORPORATE SOURCE:

RECORD. ALL CITATIONS AVAILABLE IN THE RE PORMAT HEAPLUS COPYRIGHT 2007 ACS on STN 2002:130037 HCAFLUS Full-text 137:225603 Network Full-text 237:225603 Network Full-text 2200. Xue-yan; Peng, Kar; Mang, Xiao-qin; Yang, Li-ping Dep, Chem., East China Morrasi Univ., Shanghai, 200062, Peop. Rep. China Hecheng Huaxue (2001), 9(6), 537-540 CODEN: HEUREZ; ISSN: 1005-1511 Necheng Huaxue Bianjibu Journal

SOURCE: PUBLISHER: DOCUMENT TYPE:

SN10/507,255 Page 45 of 69 May 1, 2007 STIC STN SEARCH

LANGUAGE: OTHER SOURCE(S): AB Title compour

COLORS, AND FARE 43 OI DY May 1, 2007 STIC STN SEARCH COLORS.

CARRACT 117:235603

IN SUBSCIEGE:

CARRACT 117:235603

EN SUBSCIEGE AND COMPANY AND COLORS AND COLORS

Absolute stereochemistry.

RL: SPN (Synthetic preparation); PRIP (Preparation) (synthesis of Nateglinide

RE: SPN (Synthetic preparation); PREP (Preparation)
[synthesis of Nateglinide
Life AMSMER 22 OF 34 MCAPLUS COPYRIGHT 7007 ACS on STN
ACCESSION NUMBER: 7002:81355 MCAPLUS Pull-text
POUNMENT WINGER: 7002:81355 MCAPLUS Pull-text
Plasma and urine by MPEC
CAO, Gouying Nu, Xin; Yan, Xiaoli; Yin, Qi; Song, Youhus
CORPORATE SOURCE: 813108 (Rospital, Beijing, 100730, Paop. Rep. China
Youw Fanct Zahi (2001), 21(6), 404-407
COURN TYADOL, ISSN: 023-193
PUBLISWE: You've Fanct Zahi (2001), 21(6), 404-407
COURN TYADOL, ISSN: 023-193
DOUNGENT TYPE: Journal Zahi Stanji Melyuanhul
JOURNS JOURNAL Zahi Stanji Melyuanhul
JOURNAL JOURNA

SN10/507,255 Page 46 of 69 May 1, 2007 STIC STN SEARCH

Absolute stereochemistry.

105816-05-5 HCAPLUS L-Phenylelanine, N-[[trand-4-{l-methylethyl]cyclohexyl]carbonyl]- (9C1) (CA INDEX NAME)

Absolute stereochemistry

LLE ANSWER 2. OF 34 HCAPLUS COPYRIGHT 2007 ACS on STM
ACCESSION NUMBER: 1001.571831 HCAPLUS Poll-text
Document NUMBER: 25:172.61
Silver for clarificationer from A(trans-4isopropylcyclohexyl-carbonyl)-D-phenylalanine by
RP-HPUC

AUTHOR(S): CORPORATE SOURCE:

RP-HPLC
S1, Duanyun: Zhong, Dafang
S1, Duanyun: Zhong, Dafang
Center of Instrumental Analysis, Shenyang
Pharmaceutical University, Shenyang, 110016, Peop.
Rep. Chine
Tachi (2001), 21(3), 153-154
CODON: YTZADL, ISSN: 0254-1793
ODDON: TYZADL, ISSN: 0254-1793
ODDON: TYZADL, TSSN: 0254-1793
ODDON: TYZADL, TSSN: 0254-1793
ODDON: TYZADL, TSSN: 0254-1793

SOURCE:

CODEN: YTZADL, ISSN: 0254-1793

PUBLISHER: Yacow Fent Zachi Bianji Mejyuanhui
DOCMENT TYPE: Journal
JANGUAGE: A non-chiral RP-HFLC method was developed for testing of the cis-isomer from
N-trans-d-isopropylcyclohexylcarbonyll-b-phenylalanine (I). Nucleosil C18
column was used with acutonitrile - 0.05 mol L-l NH4P2P04 (22.5:77.5) (pH 7-4)
as mobile phase (s low rate of 1.0 ml min-l), and 210 ma as UV detection
wavelength. The electrospray ionization-quadrupole ion trap mass apoctrometer
resolution of 1.51 at 54.7 mln and 49.8 mln resulted from I and its claisomer; cesp. This assay could be used as an ordinary way to test for the
cis-isomer impurity of I.

IT 105916-04-0 105816-06-6

RE: NT (Analyte): NST (Analytical study)

RL: ANT (Analyte); ANST (Analytical study) (determination of cis-isomer from N-(trans-4-isopropylcyclohexyl-carbonyl)-

phenylalanine by RP-HPLC) 105816-04-4 HCAPLUS

SN10/507,255 Page 47 of 69 May 1, 2007 STIC STN SEARCH D-Phenylalanine, M-{{trans-4-(1-methylethyl)cyclohexyl]carbonyl}- (CA

RN 105816-06-6 HCAPLUS
CN D-Phenylalanine, N-{{cis-4-(1-methylethyl)cyclohexyl}carbonyl}- (9C1) (CA INDEX NAME)

L18 AMSWER 24 OF 34 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:18482 HCAPLUS FUll-text
101:100592
TITLE: Preparation and effect of cycloalkylcarboxamide
derivatives as cysteine proclases inhibitors
Stop, Massakir Mukoyama, Marunobus Kobayashi, Junichi;
TSUVKI, Shogor Tokutake, Katunoriz Akabane, Satoshi
Kissel Harmaceutical Co., Ltd., Japan
JON, Kokal Tokky Koho, 27 pp.
CODEN: MCKKAF
DOCUMENT TYPE: Patent

DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.

JP 2001011037
PRIORITY APPLM. INFO.:
OTHER SOURCE(S):
GI

KIND DATE 20010116

MARPAT 134:100592

APPLICATION NO. JP 1999-188275 JP 1999-188275

DATE

SN10/507,255 Page 48 of 69 May 1, 2007 STIC STN SEARCH

Title compds. [I; Rl = skyl; Y = skylene; R2 = OH, aryl, aryl aktoxy; Rl = H, aktyl, aryl, pyridyl, arylakyl, pyridylakyl; Z = O, NH; n = integer [-3] and stereoisomers are prepared and possesses the cysteine protease inhibitory effect. Title compds. are useful in prevention of arthritis, Albeimer's disease, rheumatism and osteoporosis. Thus, the title compound II was prepared and tested.

1058:FeO-G-F | The protection | FFM (Fynthetic preparation); FFMD (Preparation); RMC (Reactant or reagent)

(preparation and effect of cycloalkylcarboxamide derivs. as cysteine protease inhibitors)

1058:E-O4-4 HCAPUS

D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]- (CA INDEX MAME)

Absolute stereochemistry.

L18 ANSWER 25 OF 34 HCAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 2000:491334 HCAPLUS Full-text 133:232633

TITLE:

133:232633

Pencreatic B-ceil KATP channel activity and membrane-binding studies With nateglinide: a membrane-binding studies With nateglinide: de Hu, Shiling; Mang, Shuya; Panelli, Barbaca; Bell, Philip A.; Dunning, Beth E.; Geisse, Sabine; Schmitz, Rita; Boetcher, Brian R. Metabolic and Cardiovascular Disease Department, Novartis Institute for Biomedical Research, Summit, NJ, USA

AUTHOR(S): CORPORATE SOURCE:

SN10/507,255 Page 49 of 69 May 1, 2007 STIC STN SEARCH

Journal of Pharmacology and Experimental Therapeutics (2009), 2913;1, 444-452

CODEN: JPETAS; ISSN: 0022-3565

PUBLISHER: American Society for Pharmacology and Experimental Therapeutics Journal Street Stre

study, uncreasatived) Fig. (strong-terminal study and membrane-binding studies with natesplinide and comparison with sulfonylureas and toosis-0-4-4 (ACAPUS D-Phenylalanine, N-[(trans-4-(i-methylethyl)cyclohexyl]carbonyl)- (CA INDEX NAME)

Absolute stereochemistry.

105816-05-5 HCAPLUS L-Phenylalanine, N-[[trans-4-(1-methylethyl]cyclohexyl]carbonyl]- (9CI) (CA INDEX NAME)

SN10/507,255 Page 50 of 69 May 1, 2007 STIC STN SEARCH

REFERENCE COUNT: THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

LIE ANSWER 26 OF 14

ACCESSION NUMBER:
DOCHMENT NUMBER:
1397:123360 MCAPLUS DILITERS
TITLE:
NUMBER:
1397:123360 MCAPLUS DILITERS
TITLE:
NUMBER:
1397:123360 MCAPLUS DILITERS
CHERCAL PRESENCE OF 11

AUTHOR(S):
AUTHOR(S):
CORPORATE SOURCE:
S

DOMONIATION JUNEAU CONTROL OF THE PROPERTY OF

Absolute stereochemistry.

SN10/507,255 Page 51 of 69 May 1, 2007 STIC STN SEARCH

IUJOU ,203 Page 51 Ol OF Way 1, 2007 SITC SIN SEARCH 105818-05-5
RL: ADV (Adverse effect, including toxicity); BAC (Biological activity or effector, except adverse); BSU (Biological study); Unicelated today (Biological study) (Biological study) (general pharmacol. of hypoglycemic drug AY 4166 and its enantiomer) 105816-05-5 HCAPUS
L-Phenylalanine, M-[{trans-4-(l-mathylethyl)cyclohexyl]carbonyl]- (9CI) (CA INDEX MAME)

LIB ANSWER 27 OF 34 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1995;964992 HCAPLUS Full-text
DOCUMENT NUMBER: 124:155974
CFYSTALS of N-1(trans-4-isopropylcyclohexylcarbonyl)-D-phenylslanine and methods for preparing them
SUMIKWAW, Nichtlor, Koguchi, Yoshibito; Ohgane, Tako;
Irie, Yasuo; Takhashi, Satoji
PATENT ASSIGNEE(S): 3, Ajincmoto Co., Inc., Japan
U.S., 12 pp. Cont.-in-part of U.S. Ser. No. 166,144.
COODMENT TYPE: Patent

DOCUMENT TYPE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PRI

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5463116	A	19951031	US 1994-190460	19940202 <
US 5488150	A	19960130	US 1993-166144	19931214 <
CA 2114678	A1	19950802	CA 1994-2114678	19940201 <
CA 2114678	Ç	19990427		
IORITY APPLN. INFO.:			JP 1991-189696 A	19910730 <
			JP 1991-199453 A	19910808 <

up 1991-199453 1991000 V-1 Up 1991-199453 1991000 V-1 Up 1991-199453 1991000 V-1 Up 1991-199454 1991000 V-1 Up 1991-199454 1991000 V-1 Up 1991-199464 A2 1991000 V-1 Up 199

103516-04-4 KH: EEP (Physical, engineering or chemical process); PRP [Properties]; THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses) (crystallization of (isopropylcyclohexylcarbonyl)phenylalanine for enhanced stability to grinding)

SN10/507,255 Page 52 of 69 May 1, 2007 STIC STN SEARCH

105816-04-4 HCAPLUS
D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]- (CA
10DE NAME)

Absolute stereochemistry.

173653-89-9

RL: PEP (Physical, engineering or chemical process); TBU (Therapeutic uses); BIOL (Biological study); PROC (Process); USSS (Uses) (crystallization of (isopropylcyclohexylcarbonyl)phenylalanine for enhanced stability to orindon)
173653-89-9 HCAPLUS

D-Phenylalanine, N-[[trans-4-(l-methylethyl)cyclohexyl]carbonyl]-, hydrate (SCI) (CA INDEX NAME)

Absolute stereochemistry.

●x H20

LIB ANSWER 28 OF 34 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE: HCAPLUS COPYRIGHT 2007 ACS on STN 1995:468819 HCAPLUS Full-text 123:15340 Preparation of trans-4-isopropylcyclohexanecarboxylic acid chlorids

acid chloride
Hatsuzava, Toshihito; Irie, Yasuo
Ajinosoto KK, Japan
Jpn. Kokai Tokkyo Koho, 3 pp.
CODE: JKXXAF
Patent
Japanese
1 INVENTOR(S): PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC, NUM, COUNT: PATENT INFORMATION:

PATENT NO. APPLICATION NO. 19950120 JP 07017899
PRIORITY APPLN. INFO.:
OTHER SOURCE(5): JP 1993-163426 JP 1993-163426 19930701 <--

CASREACT 123:55430

SN10/507,255 Page 53 of 69 May 1, 2007 STIC STN SEARCH

AB The title compound (1), useful as an intermediate for antidiabetic N-transition representation of transition and the cis-isomer, whereas cis-isomer was detected, when SOC12 was used instead of PCI5.

It isomer-defended.

It is PNU (Proparation, unclassified), PREP (Proparation) (preparation of transitions and intermediate for antidiabetic agent by chlorination of the acid with P chloride)

NN 105816-04-4 KCAPLUS

NO D-Phenylainnine, N-[[transided], PREP (Proparation) (CA INDEX RAME)

Absolute stereochemistry.

LIS ANSWER 29 OF 34 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
INVENTOR(S):
INVENTOR(S):
INVENTOR(S):
Sunkiews, Michitop Koguch; Coshintop Ohgane, Takacy
PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:
LANGUAGE:
PATENT ACC. MUM. COUNT:
English
FARILY ACC. MUM. COUNT:
English
FARILY ACC. MUM. COUNT:
English

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 526171	A2	19930203	EP 1992-306895	19920729 <
EP 526171	A3	19930505		
EP 526171	B1	19970305		
R: AT, CH, DE,	DK. ES	. FR. GB.	IT, LI, LU, NL, SE	
JP 05208943	A	19930820	JP 1992-202686	19920729 <
JP 2508949	B2	19960619		
AT 149483	Ť	19970315	AT 1992-306895	19920729 <
E5 2100291	13	19970616	ES 1992-306895	19920729 <
CA 2114678	A1	19950802	CA 1994-2114678	19940201 <
CA 2114678	c	19990427		
PRIORITY APPLN. INFO.:	-		JP 1991-189696	19910730 <
				19910808 <

Stable H-type crystals of N-(trans-d-isopropylcyclohexylcarbonyl)-D-phenylalanine (I) are obtained by treating I with a solvent, at >10°. A solution of 5 g I in 20 ml acctone was added to a stirred mixture of 40 ml

SNIO/507,255 Page 54 of 69 May 1, 2007 STIC STN SEARCH
acetone and 60 mt water, at 25° to precipitate H-type crystals. The crystals
have different m.p., [R spectrum and x-ray diffraction patterns from known
forms of 1 and are not converted to other forms when ground.

IT 105916-04-07
RL: PREF Greparation)
(crystals, stable, preparation of)
RN 105916-04- MCAPUS
CN D-Phonylainnine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]- (CA
INDE NAME)

LIS ANSWER 10 OF 34 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1989:46:062 HCAPLUS Full-text
DOCUMENT NUMBER: 111:64062
Separation of a new antidiabetic agent,
N-(trans-4-iappropylycylohowsylcatbonyl)-Dphenylainine, and its isomers by chiral
inh-performance liquid chromatography chiral
inh-performance liquid chromatography
DOCUMENT TYPE: 000HCB 12(3), 437-64
CODEN: JUCHUB; ISSN: 0148-3919
DOCUMENT TYPE: 000HCB 1

DOCUMENT TYPE: LANGUAGE: GI

A4166 [1] is a new oral antidiabetic agent. To determine the purity of chemical samples of A4166, a MPLC method for the separation of A4166 and synthetic byproducts (an L-mankiceer and a cis isomer of A4166) was developed. A chiral stationary phase column packed with 5 µm N-(text-buty) sminocarbony)1-L-valylaminopropy1 silica gal was used for the direct separation of A4166 and its isomers after derivatization with a nonchiral respent...

103316-04-4, A4166
RL: ANST (Analytical study)
RL: ANST (Analytical study)

SN10/507,255 Page 55 of 69 May 1, 2007 STIC STN SEARCH

D-Phenylalanine, N-[(trans-4-(1-methylethyl)cyclohexyl]carbonyl]- (CA

Application of

IT 105816-05-5 105816-06-6

RL: PROC (Process)

(separation of, as A4166 isomer, by chiral HPLC)

RN 105816-05-5 MCAPLUS

CN L-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]- (9CI)

(CA INDEX NAME)

105816-06-6 MCAPLUS
D-Phenylalanine, N-[[cis-4-(1-methylethyl)cyclohexyl]carbonyl]- (9C1) (CA
INDEX NAME)

Absolute stereochemistry.

LIE ANSNER 31 07 34 HOAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 1989:458305 HOAPLUS Full-text
DOCUMENT NUMBER: 111:55305
TITLE: 14.555105

CORPORATE SOURCE:

iff:33305 f-(Cyclohexylcarbonyl)-D-phenylalanines and related compounds. A new class of oral hypoglycemic agents.

AUTHOR (5):

Z Shinkai, Hisashi; Nishikawa, Masahiko; Sato, Yusuke; Tol, Koji; Kumashiro, Izumi; Sato, Yoshiko; Fukuma, Hariko; Dan, Katsuuki; Toyoshima, Shigeshi Cent. Res. Lab., Ajinomoto Co., Inc., Kawasaki, 210, Japan

SN10/507,255 Page 56 of 69 May 1, 2007 STIC STN SEARCH SOURCE: Journal of Medicinal Chemistry (1989), 32(1), 1136-41 COURT: JM-29/RR 158N: 0022-2623

English CASREACT 111:58305

A series of amalogs, e.g., I (R = aktyl, Ph), of N-(cyclohexylcarbonyl)-Dphenylalanine have been synthesized and evaluated for their hypoglycenic
activity. Relationships were studied between the activity and the threedimensional structure of the acyl molety, which was characterized by highresolution IH NNR spectroscopy and NNDO calens. The role of the carboxyl
group of the phenylalanine molety was also studied by comparing the activities
of the enantiomers, the decarboxyl derivative, the esters, and the amides of
the phenylalanine derive. Thus, the structural requirements for possessing
hypoglycenic activity was elucidated and a highly active compound, N-(itransd-isoprophycyclohexyl)canbonyl)-D-phenylalanine if, R - CHMP2 was obtained,
was the moreal male.

10516-04-08 blood glucose decrease at an oral dose of 1.6 mg/kg in
10516-04-08 mg/kg in
10516 mg/kg in
10516-04-08 mg/kg in
10516-04-08 mg/kg in
10516-04-08

105746-37-0P
RL: SPW (Symthetic preparation); PREP (Preparation)
(preparation, amidation, hypoglycemic activity, and calculated conformation

105746-37-0 HCAPLUS
D-Phenylalanine, N-[{4-{1-methylethyl)cyclohexyl}Carbonyl}- (9CI) (CA
HDEX NAME)

SN10/507,255 Page 57 of 69 May 1, 2007 STIC STN SEARCH

IT 105816-06-GP
RL: SPW (Synthetic preparation); FRUP (Preparation)
(preparation, hypoglycemic activity, and calculated conformation of)
RN 105816-06-6 RCAPUUS
CN D-Phenylalanine, N-[[cis-4-(i-methylethyl]cyclohexyl]carbonyl]- [9CI] (CA INDEX RAME)

LIS ANSWER 32 OF 34 RCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1989: 433013 RCAPLUS Full-text
TITLE: 11133013 RCAPLUS Full-text
Analysis of enantineers of a new antidiabetic agent in plasma by high-performance liquid chromatography
AUTHOR(S): Sato, Yusuker Mishikawa, Masahito, Shinkai, Hisashi
CORPORATE SOURCE: Japan
SOURCE: Journal of Liquid Chromatography (1989),
TOURNAIS JUCHOS; ISSN: 0148-3919
DOCUMENT TYPE: JOURNAIS JUCHOS; ISSN: 0148-3919

COCCHEMIT TYPE: Journal

LANGUAGE: English

8 A new antidiabetic agent, N-(trans-4-isopropylcyclohexylcarbonyl)-Dphenylalaone (Ali66), its L-enantioner were successfully separated and
quantified by high-performance liquid chromatog. This direct resolution was
accomplished using a chiral stationary phase column packed with 5 pm N-(tertbutylaminocarbonyl)-t-valylaminopropyl silica eql and mobile phase consisting
of n-hexane/n-propanol/trifluoroacetic acid. The method has been used for the
anal. of plasma samples from beaple dogs.

RL: MNT (Analyte): NMST (Analytical study)
(deremination of, in plasma, by HPLC)

RN 108516-05-5 (CAPLUS

RL -Phenylalanine, N-[(trans-4-(1-methylethyl)cyclohexyl]carbonyl)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

SN10/507,255 Page 58 of 69 May 1, 2007 STIC STN SEARCH

L18 AMSMER 33 0F 34 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1997:89057 HCAPLUS PNII-text
COCTFECTION OF: 1997:19047
TITLE: 1005:89057 Correction of: 1997:19047
TITLE: 1005:89057 Correction of: 106:19047
PERPERATION of D-phenylalanine derivatives and their use as hypoglycenic agents. Toyoshina, Shiqeshi; Setc, Yoshiko; Shinkai, Hisashi; Toyoshina, Shiqeshi; Setc, Yoshiko; Shinkai, Hisashi; Ajinomoto Co., Inc., Japan
COURSE: EUR PSEX ADDIL, 25 pp.
COORM: EPEXXON
DOCUMENT TYPE: 48tent

DOCUMENT TYPE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PA	TENT NO.		KIND	DATE	APPLICATION NO.	DATE
EP	196222		A2	19861001	EP 1986-302217	19860326 <
EP	196222		A.3	19880224		
EP	196222		81	19920129		
	R: CH,	DE. FR.	GB, LI			
JP	63054321		A .	19880308	JP 1986-61833	19860319 <
JP	04015221		В	19920317		
ÚS	4816494		A	19890328	US 1988-146719	19880121 <
US	34878		E	19950314	US 1993-157564	19931123 <
ORIT	Y APPLN. I	NFO.:			JP 1985-62276 A	19850327 <
					JP 1986-38111 A	1 19860222 <
					HC 1006-044070 A	1 10000337 -

US 1986-844970 US 1988-146719 A3 19860327 <--A5 19880121 <--

57

SN10/507,255 Page 59 of 69 May 1, 2007 STIC STN SEARCH

SNIU/SU7,255 Page 59 of 69 May 1, 2007 STIC STN SEARCH

OTHER SOURCE(S):

AB Definition deries. Descondance of the state o

105816-04-4 HCAPLUS
D-Phenylelanine, M-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]- (CA
IMDEX NAME)

105816-05-5 MCAPLUS L-Phenylalanine, N-{[trans-4-(1-methylethyl]cyclohexyl]carbonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

SN10/507,255 Page 60 of 69 May 1, 2007 STIC STN SEARCH

105816-06-6 HCAPLUS
D-Phenylalanine, N-[[cis-4-(1-methylethyl)cyclohexyl]carbonyl]- (9CI) (CA HOREX MARE)

Absolute stereochemistry.

LIB ANSWER 34 OF 34 HCAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 1987:19047 HCAPLUS FD)1-text
TITLE: 10VENTOR(S): 1987:19047 HCAPLUS FD)1-text
INVENTOR(S): 1987:19047 HCAPLUS FD)1-text
TOyoshina, Shiqushir, Seto, Yoshiko; Shinkai, Hisashir, Tixum
PATENT ASSIGNEE(S): 2016, 2017, 20

DOCUMENT TYPE: LANGUAGE: PATENT INFORMATION:

PATENT NO. KIND DATE EP 196222 A2 R: CH, DE, FR, GB, PRIORITY APPLN. INFO.: GI

DATE APPLICATION NO.
19861001EP 1986-302217 19860326

JP 1985-62276

D-Phenylalanine derive. D-RZCONRICH(COZRI]CHZPh [1] R1 = N, C1-5 alkyl, C6-12 aryl or aralkyl, Q, CHZCOZRI, CHMCCOZRI, CHZCOCREJ, R2 = [un]substituted C6-12 aryl, 3- or 4-membered heterocyclyl, cycloalkyl, cycloalkenyl; R3 = N, C1-5 alkyl, cheff salts, and precursors which can be converted thereto in the human or animal body, useful as hypoglycemics, were prepared via conventional P-cycloric redctions. D-Phenylalanie in 10% aqueous MAGN as successively tracial products and the product of the CCC, 4-ECGHCCOC in MeZCC, and 10% aqueous MAGN to give 03% and 10% aqueous MAGN at 25 arg/kg in mice. D-II decreased blood glucose 34% 10.5746-37-CP 105816-04-CP 105816-08-SP

105816-06-07
RL: EPN (Synthetic preparation); PREP (Pemparation)
(preparation of, as hypoplycemic)
RN 105746-17-0 HCAPUS
CN D-Phenylalanine, N-[[4-(1-methylethyl)cyclohexyl]carbonyl)- (9CI)
INDEX MANE)

Absolute stereochemistry.

105816-04-4 HCAPLUS 0-Phenylalanine, N-{[trans-4-(1-methylethyl]cyclohexyl]carbonyl]- (CA INDEX MAND)

RN 105816-05-5 HCAPLUS CN L-Phenylalanine, N-[[trans-4-[1-methylethyl]cyclohexyl]carbonyl]- (9CI) (CA 10DEX NAME)

Absolute stereochemistry.

RN 105816-06-6 RCAPLUS
CN D-Phenylalanine, N-[[cis-4-(l-methylethyl)cyclohexyl]carbonyl]- {9CI} (CA INDEX NAME)

Absolute stereochemistry.

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61

SN10/507,255 Page 63 of 69 May 1, 2007 STIC STN SEARCH INVENTOR NAME SEARCH

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PROCESSING COMPLETED FOR L26
L28 5 DUP REM L26 (4 DUPLICATES REMOVED)
ANSWERS '1-4' FROM FILE HCAPEUS
ANSWER '5' FROM FILE MEDLINE

L28 AUSMER 1 OF 5 HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 1
ACCESSION NUMBER: 2006:733033 HCAPLUS F<u>ull-text</u>
DITLE: 01eet compression formulation comprising dispetitylpeptidase IV inhibitor
INVENTOR(5): Pfeffer, 3abinet Schawler, Frank; Schaweberger, Ricardo, #dutanch, Feda Alagus Trumby, Martin

L28 AMSNER 2 OF 5 HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 3
ACCESSION NUMBER: 12003:h87029 HCAPLUS Pull-text
171TLE: 1203:h87029 HCAPLUS Pull-text
171TLE: 139:128379
TITLE: 139:128379
HCAPLUS Pull-text
193:128379
Crystal polymorphism of mategiinide
MOVENTOR(S): 8teton, Paul Allen
PATENT ASSIGNEE(S): 1000-11 Allen
HOVACTIS A.-G., Switz. / Novactis Pharma G.m.b.H.
CODEM: PIXXO2
DOCUMENT TYPE: 1000-11 ACS
CODEM: PIXXO2
CODEM: PIXXO2
English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

MO 2003087038 A1 20031023 NO 2003-EP3864 20030414
M: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, ER, BY, BZ, CA, CH, CN,

SN10/507,255 Page 64 of 69 May 1, 2007 STIC STN SEARCH

PATENT ASSIGNEE(S):
SOURCE:

DOCUMENT TYPE:
LANGUAGE:
PATENT ASSIGNEE (S):

PATENT INFORMATION:

Friedrich; Wirth, Wolfgang
Movartis A.-G., Switz.; Movartis Pharma G.m.b.H.
CODEN: PIXXD2
English
English

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SN10/507,255 Page 65 of 69 May 1, 2007 STIC STN SEARCH
        RECORD. ALL CITATIONS AVAILABLE IN T

ACCESSION NUMBER:
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INVENTOR(S):
INVENTOR(S):
PATENT ASSIGNEE(S):
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			HR,	HU,	10,	IL,	IN,	15,	JP,	KE,	KG,	KP,	KR,	ΚZ,	LC,	LK,	LT,	LU,
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REFERENCE COUNT:

3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD, ALL CITATIONS AVAILABLE IN THE RE FORMAT RECORD, ALL CITATIONS AVAILABLE IN THE RE FORMAT ACCESSION NUMBER: 2005/2016/18 ROPPING TILLICIES.

DOCUMENT NUMBER: 103/2016/2016

AVTHOR(3):

AVTHOR(3):

PUBLISHE: 103 in thermogravimetric analysis of disacid salts Pan, Changhang, Liu, Frances; Switcas, Paul;

Vivilocchis, Richard

Formaceutical and Analytical Development, Novartis Parameterical and Analytical Development, Novartis Parameterical and Analytical Development, Novartis Parameterical Corporation, East Nemover, NJ, 07936, USA

SOURCE: Thermochimical Acta (2005), 435(1), 11-17

COORN: THACAS; ISSN: 0040-6031

Elevier 8.V. Journal

AS The cramel desorption gas chromatograph mass spectrometry (TD GC/MS) was used to study weight loss in TGA. The cachingue of thermal desorption uses the same temperature heating rate as the TGA to thermally desorb volatiles from solid sample matrixes. Volatiles were cryo-trapped at -60°. After thermal desorption is complete, the trapped volatiles are separated by a GC capillary column and identified by assas spectrometry. The TD GC/MS was applied in the thermal decomposition of two discreboylic acid salts of a drug substance. These two salts exhibited different thermal stabilities. The thermally induced chemical seactions obtained from these two salts included dehydration and decarboxylation. Thermal degradation compds, were identified and reaction pathways for decomposition are proposed. The stability of the salts is dependent on the identity of the discreboxylic acid salts of the salts is dependent on the identity of the discreboxylic acid sirve which understand the weight loss process in TGA. ALL CITATIONS AVAILABLE IN THE RE FORMAT EXCESSION WARRES. 20052022424. MEDILES FULLERS.
          L28 ANSWER 5 OF 5 MEDLINE on STM DUPLICATE 2
ACCESSION NUMBER: 2006129424 MEDLINE Full-text
DOCUMENT NUMBER: PubMed 1D: 16426779
TITLE: Elimination of metformin-croscarmellose sodium interaction by competition.
AUTHOR: Hung M X; Desai M; Tang Q; Yang R; Vivileochia R V
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SN10/507,255 Page 66 of 69 May 1, 2007 STIC STN SEARCH

SN10/507,255 Page	67 of 69 May 1	, 2007 STIC	STN SEARCH

PUB. COUNTRY: DOCUMENT TYPE: LANGUAGE: FILE SEGMENT: ENTRY MONTH: ENTRY DATE:

10/507,255 Page 67 of 69 May 1, 2007 STIC STN SEARCH

Analytical Development, East Hanover, NJ 07936, USA..

wei.huang@pharma.novartis.com

CE: International journal of pharmaceutics, (2006 Mar 27) Vol.
311, No. 1-2, pp. 33-9. Electronic Publication:
30urnal code: 700127. ISSN: 0378-5173.

COUNTRY: Netherlands

NENT TYPE: Journal: Articles (JOURNAL ARTICLE)

HANGE: English
Priority Journals

Y MONTH: 200610

During analytical method development and validation, a strong charge
Interaction between metformin and croscarmellose sodium was observed when the
aqueous solution containing metformin was spited with croscarmellose sodium.

The charge interaction resulted in the retention of metformin in
croscarmellose sodium and caused as serious drug recovery problem. The percent
recovery of metformin in the solution was much lower than its theoretical
values, especially in the low metformin concentration range. To overcome the
metformin-croscarmellose interaction, arginine was selected as a competitor
attronger interaction between arginine med croscarmellose sodium than metformin
and croscarmellose sodium and high concentration range. To overcome the
metformin-teraction between arginine med croscarmellose sodium than metformin
and croscarmellose sodium and high concentration concentration in presence of
arginine in both low and high concentration and croscarmellose sodium. The effect
of arginine in both low and high concentration and croscarmellose sodium. The effect
of arginine in both low and high concentration and croscarmellose sodium. The effect

SN10/507,255 Page 68 of 69 May 1, 2007 STIC STN SEARCH SEARCH HISTORY

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                          (FILE 'HOME' ENTERED AT 16:17:35 ON 01 MAY 2007)
                       FILE 'REGISTRY' ENTERED AT 16:17:51 ON 01 MAY 2007
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1 SEA ABB-ON PLU-ON NATEGLINIDE/CN
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2 SEA FAM SAM L2

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6 SEA ABB-ON PLU-ON 14:(L) PEP/AL

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1 SEA ABB-ON PLU-ON US2002-3631/P8P/PRN

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253 SEA ABB-ON PLU-ON L5 AND (FY<2003 OR PRY<2003)

25 SEA ABB-ON PLU-ON L5 AND (FY<2003 OR PRY<2003)

38 SEA ABB-ON PLU-ON L6 (L) PREP+NT/RL
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1 SEA ABB-ON PLU-ON 105816-04-4
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                         FILE 'REGISTRY' ENTERED AT 16:24:52 ON 01 MAY 2007
34 SEA ABB-ON PLU-ON L4 NOT L14
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                          FILE 'HCAPLUS' ENTERED AT 16:25:12 ON 01 NAY 2007
29 SEA ABB-ON PLU-ON L15
53 SEA ABB-ON PLU-ON L12 OR L16
34 SEA ABB-ON PLU-ON L17 AND L10
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                          FILE 'HCAPLUS, HEDLINE, EMBASE, BIOSIS, DISSABS, WPIX' EMTERED AT 16:30:22 ON 01 MAY 2007

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SN10/507,255 Page 69 of 69 May 1, 2007 STIC STN SEARCH

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124 327 SEA ABB-ON PLI-ON LIJO SM LOZ OR L21 OR L22)

125 9 SEA ABB-ON PLI-ON L24 AND 7/MATEGLINID?

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FILE 'HCAPLUS, MEDLINE, DHBASE, BIOSIS, DISSABS, WPIX' EMTERED AT 16:37:38 ON 01 MAY 2007

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5 DUP REM 126 (4 DUPLICATES REMOVED)

ANSWERS '1-4' FROM FILE MEDLINE

D 128 BIB ASS' TO' L26